



ST. XAVIER'S SENIOR SECONDARY SCHOOL, JAIPUR

SA - II : 2014-2015

Informatics Practices	Class: XI	Date: 11/03/15	Time: 3 Hrs	M.M. 70
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Note

1. This question paper is divided into 3 sections
2. Answer the questions after carefully reading the text.

Section - A (30 Marks)		
Q.1	Answer the following questions :	
	(a) What is the use of UPDATE statement in MySQL?	2
	(b) Name four DML commands.	2
	(c) How will you remove and open a database?	2
	(d) What is the difference between a null value and an empty value like ' ' ?	2
	(e) Write a query to look for null values in 'city' column of 'students' table?	2
Q.2	Answer the following questions :	
	(a) Write a statement in Java to convert a double variable named 'price' and store in a String variable named 'sprice' using a String class method only .	2
	(b) What are the iteration statements in Java ? Explain any one of them with syntax.	2
	(c) Explain any two features of 'switch' statement.	2
	(d) What is the use of various 'parse...()' methods? Explain any one of them with an example.	2
	(e) Name methods to: <ol style="list-style-type: none"> 1. Add a new value in a textarea control. 2. Set a default selection on a particular radio button. 3. Get the value selected by the user in a combo box control. 4. Get the result of whether a given checkbox is selected or not. 	2
Q.3	Answer the following questions :	
	(a) Create a form to input two numbers and display the maximum of those two numbers.	2
	(b) What will be the output of the following SQL queries: <ol style="list-style-type: none"> 1. SELECT ROUND(12356.345,-2); 2. SELECT YEAR("2000-12-24") - MONTH ("2000-12-24"); 3. SELECT TRUNCATE(123456.865,2); 4. SELECT MOD(29,5); 	2
	(c) What will be the output of the following Java statement: <pre>for(; ;) System.out.println("Hello");</pre>	2
	(d) What do you mean by Entry Controlled and Exit Controlled loops? Give an example of each type.	2

(e)	Name 8 Java's primitive data types.	2
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Section – B (20 Marks)

Q.4 Answer the following questions :

(a)	<p>What output will the following code fragment produce ? Explain.</p> <pre>int n = 20 ; System.out.println(++ n + " , " + n + " , " + n --);</pre>	2
(b)	<p>Correct the errors if any and give the output for the code fragment.</p> <pre>int a = 10 , b = 5 ; if (a > b) { if (b > 5) System . out . println (" b is " + b); } else System . out . println (" a is " + a);</pre>	2
(c)	<p>Given the following code fragment : Rewrite the code using do-while.</p> <pre>int i = 100 ; while (i > 0) System . out . println (i --); System . out . println ("Thank You");</pre>	2
(d)	<p>Given the following code fragment, rewrite in terms of switch – case statement.</p> <pre>if (ch == 'N') System . out . println ("North"); if (ch == 'E') System . out . println ("East"); if (ch == 'W') System . out . println ("West"); else System . out . println ("South");</pre>	2
(e)	<p>Write a Java class program to print the first 10 natural numbers.</p>	2

Q.5 Read the following case study and answer the questions that follow :

A programmer is required to develop a student record. The school offers two different streams, medical and non-medical, with different grading criteria.

The following is the data entry screen used to calculate percentage and grade.

Student Record

First Term Marks :

Second Term Marks :

Percentage :

Grade :

Stream

Medical

Non-Medical

The list of controls for the above frame is as follows :

Control Type	Control Name	Description
Frame	FrameStudRec	The main Frame
Text Field	txtFirstTerm	To enter first term marks
	tx:SecondTerm	To enter second term marks
	txtPercentage	To display the percentage
	txtGrade	To display the grade
Radio Button	optMedical	To provide the Medical Stream
	optNonmedical	To provide the Non-Medical Stream
Ok Button	cmdCalcPerc	To calculate Percentage
	cmdCalcGrade	To calculate Grade
	cmdClear	To clear all Text Fields
	cmdExit	To Exit from the Application

(a) Write the code for the From Window Activate event of FrameStudRec so as to disable the txtPercentage and the txtGrade text fields. 1

(b) Write the code for the cmdClear button to clear all the text fields. 2

(c) Write the code for the cmdCalcPerc button to calculate the percentage to display in text field txtPercentage, after finding the total marks of first term and second term (assuming that both marks are out of 100). 3

(d) Write the code for the cmdCalcGrade button to calculate the grade to display in text field txtGrade, depending on the stream selected according to the criteria in the following table: 4

Stream	Percentage	Grade
Medical	> = 80	A
		B

	< 60	C
Non Medical	> = 75	A
	50 - 75	B
	< 50	C

Section - C (20 Marks)

Q.6 Fill in the blanks for the following

(a)	_____ keyword eliminates redundant data.	1
(b)	_____ operator is used for making range checks in queries.	1
(c)	_____ operator is used for making character comparisons using strings.	1
(d)	_____ clause is used to sort the results of a query.	1
(e)	_____ clause is used to select specific rows.	1

Q.7 Answer the following questions:

Field	Type	Null	Key	Default
sno	int(4)	NO	PRI	NULL
sname	varchar(10)	YES		NULL
class	varchar(5)	NO		XI

(a)	Create a table by name student with above description.	2
(b)	Add a column section of type varchar and size 2.	1
(c)	Delete the column section.	1
(d)	Remove the table.	1

**Q.8 Write the Queries for the following questions using the table Student with the following fields :
Student (Sno, Sname, Stream, AvgMarks, Grade)**

(a)	Display all the records (all columns) .	1
(b)	How many streams are offered to the students ?	1
(c)	List the details of students whose avgmarks are greater than 75.	1
(d)	Display student name stream and AvgMarks *0.3 as PreAnnual Marks.	1
(e)	Display the students whose name contains 'A' as third alphabet.	1

Q.9 Write the output for the following queries of the table Sports :

SNO	STUDENT	AGE	SPORT	DOB	GENDER
1	Ravina	34	Karate	1998-01-20	F
2	Karan	34	Squash	1998-02-19	M

(a)	SELECT UCASE(sport) FROM Sports ;	1
(b)	SELECT MOD(Age,5) FROM Sports WHERE Gender = 'F' ;	1
(c)	SELECT POWER(3,2) FROM Sports WHERE sport = 'KARATE' ;	1
(d)	SELECT LEFT(sport, 2) FROM Sports ;	1
(e)	SELECT CONCAT(student, sport) FROM Sports ;	1